05707-67 EVE(k)/EVT(1)/EVT(m)/T/EVE(t)/ETL_IJP(c) - JH/JD/HW SOURCE CODE: UR/0250/66/010/008/0558/0561 ACC NR: AP6029650 AUTHOR: Severdenko, V. P.; Labunov, V. A. Belorussian Polytechnical Institute (Belorusskiy politechnicheskiy institut) TITLE: New ultrasonic vibration systems for units processing metals under pressure with ultrasound application SOURCE: AN BSSR. Doklady, v. 10, no. 8, 1966, 558-561 TOPIC TAGS: ultrasonic vibration, ultrasonic vibration system, ultrasonic metal deformation ultrasonic metal working ABSTRACT: Since the existing systems for plastic working of metals with simultaneous application of ultrasound do not produce satisfactory results because the standing wave exists only during the first deformation stages, two new modified systems were developed. In both new designs the ultrasonic system is acoustically isolated from the mass of the metal-forming unit. Therefore, both systems can be used with any deformation force. In cold extrusion of small aluminum fillets with reductions of 36-84%, which required forces of 1700-7300 kg (without ultrasound), the old system produced no improvement, while the new systems reduced the pressure for extrusion with 36, 52, and 84% reduction from an initial 1700, 2400, and 7300 kg to 600-1000, 1200-1700, and 5300-6200 kg. The lower values of pressure were obtained with a system which was provided with two magnetostrictive transducers with metal placed Card_{-}

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ACC NR: AT6036702

SOURCE CODE: UR/0000/66/000/000/0101/0107

AUTHOR: Severdenko, V. P. (Asademician AM BSSR); Kalachev, M. I.; Ankut, P. P.

ORG: none

TITLE: The change in the microstructure of titanium as a function of deformation conditions

SOURCE: AN BSSR. Fiziko-tekhnicheskiy institut. Plastichnost' i obrabotka metallov davleniyem (Plasticity and metalworking by pressure). Hinsk, Hauka i tekhnika, 1966, 101-107

TOPIC TAGS: titanium, metallographic examination, plastic deformation, tensile property, compressive property, torsion, high temperature, low temperature, twinning

ABSTRACT: The microstructure of industrially pure titanium (VTI-1) was studied as a function of deformation conditions. Tensile, compressive, and torsion tests were performed at different temperatures and strain rates. For all stress states, twinning was observed at -110 and -196°C. At the lower temperatures the critical resolved shear stress became greater than the critical twinning stress; at liquid nitrogen temperatures, for example, 5 possible twin planes were active compared to only one slip plane, (1010). Micrographs showed multiple twinning at -196°C and strain rates of 2.0 min⁻¹ - 4.10⁻³ min⁻¹, resulting in a needle-like structure. For small deformations, the twins

Card 1/2

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tended to align parallel to the maximum deformation direction, while at higher deformations the orientation increased and the angle between the axis of the sample and the needles decreased. In the zone of maximum deformation the twin size was small relative to the grain size. This was true especially of compressive loading, where two prominent zones occurred. At the ends of the sample the deformation was less than at the center. In the temperature range of 20-400°C the microstructure of deformed samples was a function of the stress state. Twins were absent in tension where slip occurred more readily. Much twinning occurred in torsion at 20-400°C, since shear was more conducive to twin formation; however, at high shear deformations and at temperatures above 400°C, slip became the dominant mechanism. Zones were again apparent during compression at 20-400°C. Only at the center did large deformations cause grain fragmentation, and dark etching shear bands were observed along the maximum shear planes. Upon closer examination, these bands revealed micro- and macrocracks. The range 600-800°C marked the initiation of recrystallization in titanium. The recrystallization tendencies varied as a function of strain rate at 600°C, but were stable at all strain rates at 800°C. Torsion testing at 800°C differed from tensile or compressive testing in that slip and twinning occurred simultaneously to produce two new twin planes. Orig. art. has: 3 figures.

ORIG REF: OBJul66/ SUBM DATE: SUB CODE: 11/

Card 2/2

ACC NR: AT6036703

SOURCE CODE: UR/0000/66/000/000/0155/0157

AUTHOR: Severdenko, V. P. (Academician AN BSSR); Maley, T. P.

ORG: none

TITLE: The production of intricately shaped parts by liquid steel forging'

SOURCE: AN BSSR. Fiziko-tekhnicheskiy institut. Plastichnost' i obrabotka metallov davleniyem (Plasticity and metalworking by pressure). Minsk, Nauka i tekhnika, 1966, 155-157

TOPIC TAGS: molten metal forging, shaft, tractor/ MTZ-50 tractor

ABSTRACT: Liquid steel forging was used in the production of a transmission guide shaft for the MTZ-50 tractor. The liquid forging technique was developed at the Belorussian Polytechnical Institute. A special die mold was built with two mutually perpendicular joints, one of which served as a plunger and master die. The plunger was made of 3Kh2V8 steel which was heat treated to 30-35 R_c. In some parts of

the die where maximum temperatures occurred, 3Kh2V8 die inserts were used. The punch-die clearance was 0.2-0.5 mm. During liquid forging the punch overlaps the die cavity and the injected metal crystallizes under pressure. A 50 kilogram induction fur-

Card 1/2

nace melted the steel, and an IZh-50 hydraulic press supplied the required pressure.

A refractory slurry (87% water by weight) was used as a die lubricant. The liquid
forging conditions were as follows: metal temperature (steel 45) before initial
forging see 1500-1520°C, the liquid forging pressure was 78.4-98 mN/m² (8-10 kg/
pressing was 1500-1520°C, the liquid forging pressure was 15-18 sec. Extraction of
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ACC NR: AT6036708 ----- SOURCE CODE: -- UR/0000/66/000/000/0247/0256

AUTHOR: Severdenko, V. P. (Academician AN BSSR); Reznikov, Yu. N.

ORG: none

TITLE: The effect of ultrasonic oscillations of various directions on the wire drawing process of metals

SOURCE: AN BSSR. Fiziko-tekhnicheskiy institut. Plastichnost' i obrabotka metallov davleniyem (Plasticity and metalworking by pressure). Minsk, Nauka i tekhnika, 1966, 247-256

TOPIC TAGS: ultrasonic vibration, ultrasonic impulse, metal drawing, longitudinal ultrasonic wave, transverse wave

ABSTRACT: A theoretical analysis, verified by experimental data, showed that longitudinal oscillations were most effective in lowering frictional forces during tube drawing (no mandrel). Oscillations that are perpendicular to the drawing die may be used during tube drawing on a short mandrel, when the application of longitudinal oscillations are difficult or impossible. The effect of ultrasonics on the lowering of contact friction was analyzed by equating the applied impulse to the impulsive friction force acting on the wire or tube per unit time. A hodograph gave the geometrical relationship between the velocity vectors. Trigonometric relationships between the angles

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and velocity vectors were obtained from the hodograph in deriving an integral equation for the ratio of frictional forces during ultrasonic wave application relative to ordinary drawing. This equation was approximated by Simpson's rule and a numerical method was used to obtain values for each term in the approximation. A table gave numerical values for each term for values of β ranging from 0.0004 to 0.15, where β = $V_0/a\omega$, V_0 is the slip velocity, α is the oscillation amplitude, and ω is the angular frequency. The theoretical study showed that longitudinal oscillations were the most effective in lowering frictional forces. Experimental data verified this for values of β ranging from 0 to 0.14. Transverse oscillations were least effective in lowering frictional forces, while rotational oscillations were almost as effective as longitudinal ones. A schematic diagram shows the experimental apparatus used for tube drawing in an ultrasonic field. Experiments on copper tube showed that longitudinal oscillations lowered the drawing force 30-35%, and transverse--15%. Orig. art. has: 3 figures, 2 tables, 15 formulas.

SUB CODE: 11/ SUBM DATE: 08Jul66/ ORIG REF: 007/ OTH REF: 002

Card 2/2

ACC NR: AP7000155 (A) SOURCE CODE: UR/0250/66/010/011/0847/0848

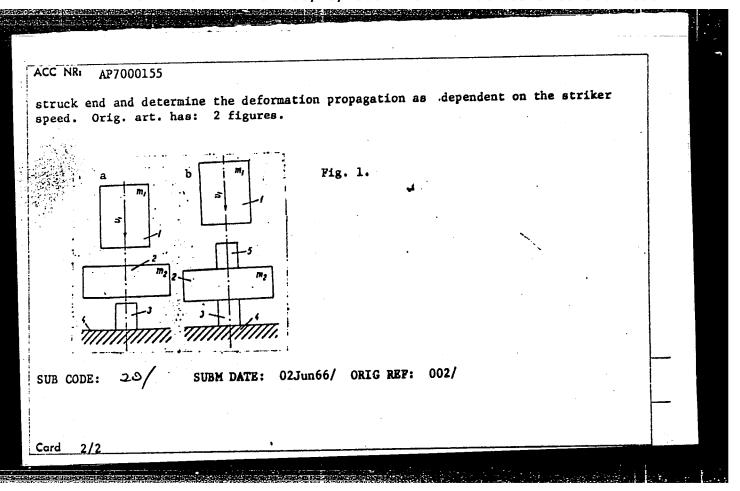
AUTHOR: Severdenko, V. P. (Academician AN BSSR); Ryzhkovich, R. L.

ORG: Belorussian Polytechnic Institute (Belorusskiy politekhnicheskiy institut)

TITLE: Investigation of plastic deformation propagation under dynamic loading

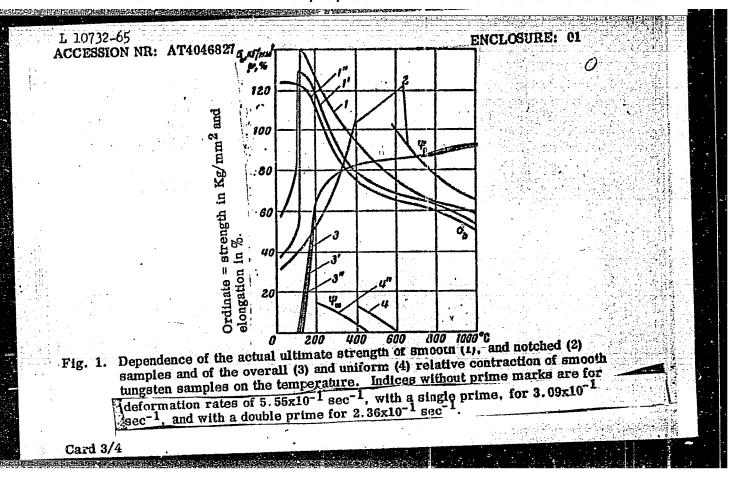
SOURCE: AN BSSR. Doklady, v. 10, no. 11, 1966, 847-848

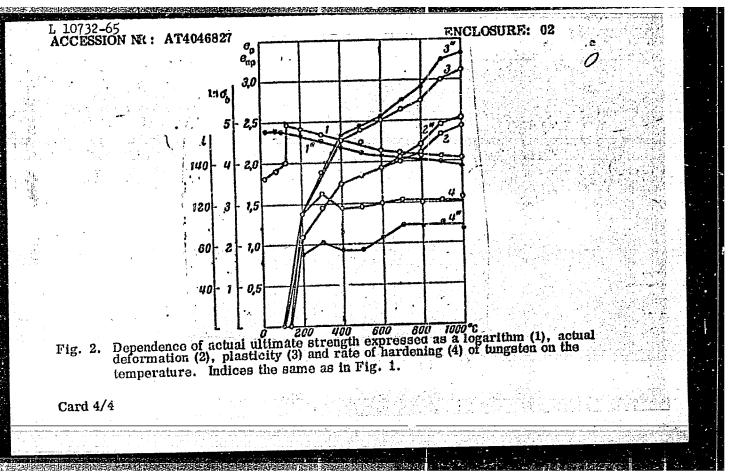
TOPIC TAGS: dynamic plastic deformation, plastic deformation propagation, Jafic Conditest, dynamic Roching, aerodynamic Roshing ABSTRACT: Under static loading a cylindrical speciment deforms uniformly from both ends, but under dynamic loading the plastic deformation is localized at the impacted end of a cylindrical specimen. The cause of nonuniform deformation distribution in specimens depends on the nonuniform distribution of inertia forces in specimens under the effect of which the deformation takes place. A scheme was plotted (see Fig. 1) in order to determine the effect of inertia forces on the deformation propagation induced by dynamic loading. According to this scheme, the usual specimen is substituted by a system consisting of two identical cylinders of the investigated material 3,5 and rigid body 2, whose mass m_2 can be changed during the experiment over a wide range. It was found that after striker 1 impacts upper specimen 5, lower specimen 3 is less deformed than specimen 5. The larger the mass m_2 , the less deformed is specimen 3. Figure 1b can be regarded as a model of a long, uniform specimen, the mass of which is equal to the mass of the whole system (5,2,3). The change of mass m_2 of specimens 3 and 5 make it possible to estimate the metal behavior at various distances from the Card 1/2



Pf-4 BSD/ASD(m)-3/ASD(f)-2 JD/JG/MLK ENT(m)/EWP(k)/EWP(b) L 10732-65 8/0000/64/000/000/0114/0117 ACCESSION NR: AT4046827 AUTHOR: Severdenko, V.P., Kal'nitskiy, R.M. TITLE: Plasticity and strength of tungsten in short-term tests SOURCE: AN SSSR. Nauchny*y sovet po probleme znavoprochny*kh splavov. issledovaniya staley i splavov (Studies on steels and alloys). Moscow, Izd-vo Nauka, 1964, 114-117 TOPIC TAGS: tungsten, tungsten plasticity, tungsten strength, powder metallurgy, testing procedure, tungsten powder ABSTRACT: The authors determined the plasticity and strength of 99.95% pure sintered tungsten powder prestressed 93% at 20-1000C and a rate of 2.36x10⁻² to 5.55x10⁻¹ sec⁻¹. After pointing out that there is uniformity of opinion on strength testing but different points of view on plasticity testing, they analyze the problem on the basis of the equation: where and Yare the normal and shear stresses, respectively; the left side of the equation expresses the product of the volumetric (three-dimensionally) stressed condition, while Card 1/4

L 10732-65 ACCESSION NR: AT4046827 the right side expresses the linearly stressed condition. The test results obtained on a Shopper-250 machine are illustrated in Figs. 1 and 2 of the Enclosure. They show that the plasticity relationships are more clearly expressed than the actual deformation. Plasticity increases together with the testing temperature and with a decreasing deformation rate. Uniform contraction of the tungsten is limited to a certain temperature, which increases as the deformation rate increases. The temperature of transition from the brittle to the plastic state shifts toward higher temperatures as the rate and radial tensile stresses increase. In the plastic range, the strength drops as the temperature increases. The results of this investigation may be applied to the selection of the best conditions for deformation and use of sintered tungsten powder. Orig. art. has: 3 figures and 4 formulas. ASSOCIATION: none SUB CODE: MM ENCL: 02 SUBMITTED: 16Jun64 OTHER: 004 NO REF SOV: 002 Card 2/4





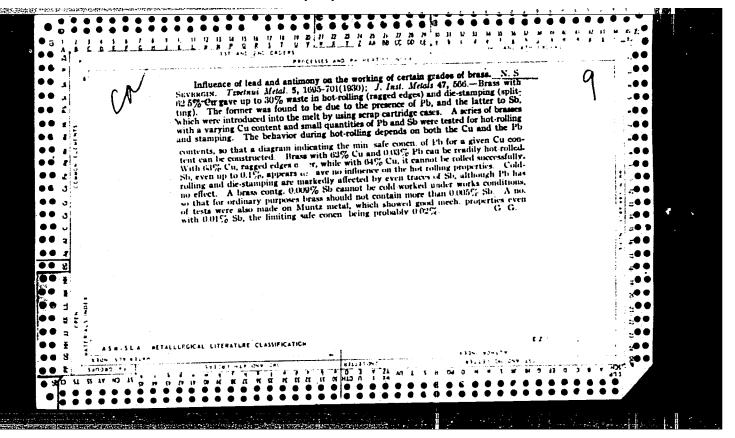
EWT(m)/EWP(k)/EWP(b) Pf-4 JD/HW ACCESSION NR: AP4044256 8/0250/64/008/007/0444/0446 AUTHOR: Severdenko, V. P.; Gurskiy, L. I. TITLE: Spread in multistage deformation Source: AN BSSR. Doklady*, v. 8, no. 7, 1964, 444-446 TOPIC TAGS: small reduction deformation, multistage deformation, multipass rolling, small reduction multipass rolling ABSTRACT: The effect of the magnitude of per-pass reduction on the apread of rolled metal was studied with copper bars 11 mm thick and 15 mm wide. The bars, vacuum annealed at 6500. were rolled with a total reduction of 9-96% either in one pass or in several passes with an absolute reduction of 0.06 mm per pass. It was found that multipass rolling with small reductions per pass reduces considerably the spread of metal. For instance, a bar rolled in one pass with a reduction of 90% spread approximately 95%, while a bar rolled with the same total reduction of 90% but with small reductions per pass spread only 30%. Thus, in rolling with small per-pass reductions, the displacement of metal in the transverse direction and consequently

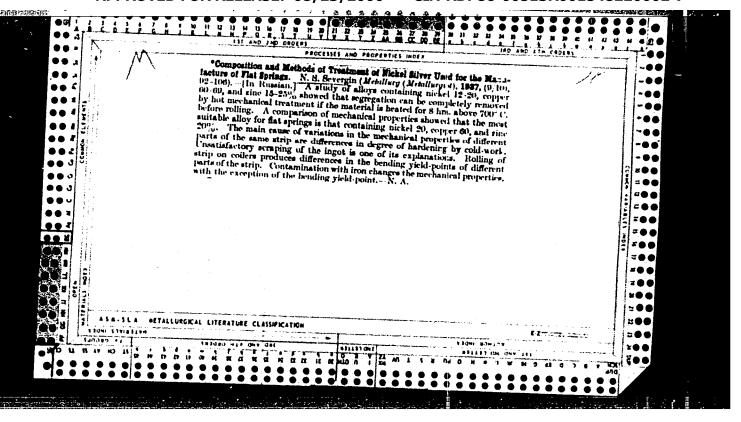
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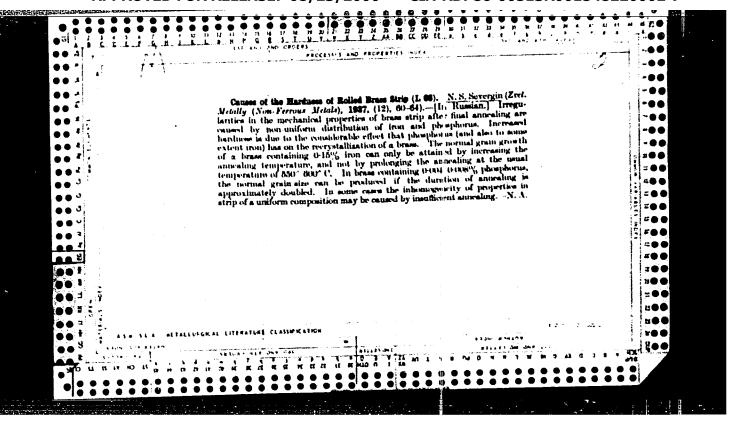
SEVERENSKIY, E. F.

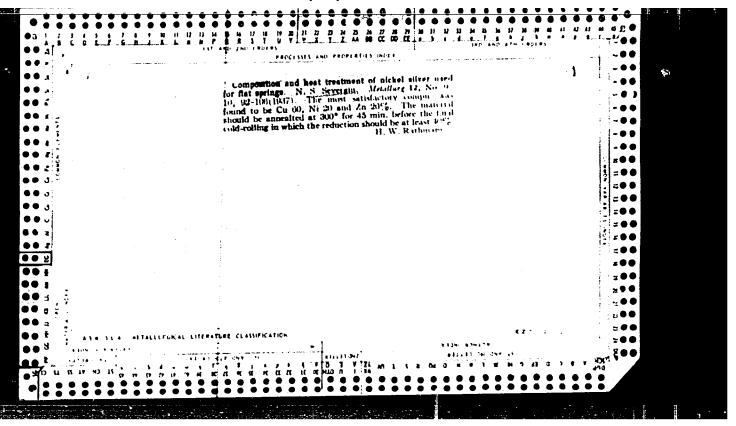
"Seismis Survey and Analysis of Seismic Observations in the USSR," one of the reports given at the 10th General Assembly of the International Union of Geodesy and Geophysics, Rome, 1954

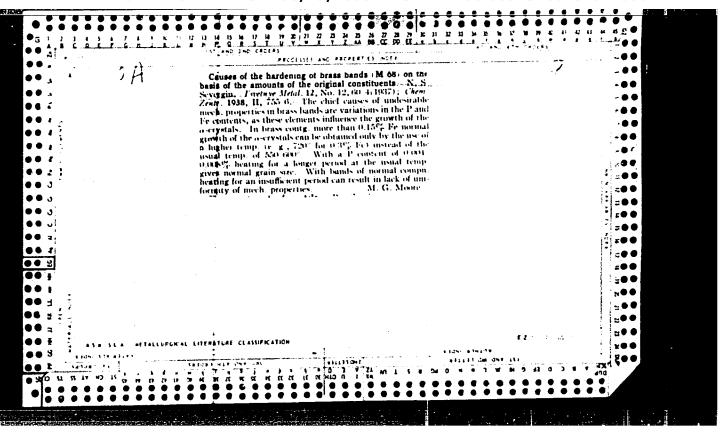
Evaluation, B-86198 and 86204, 30 Jun 55

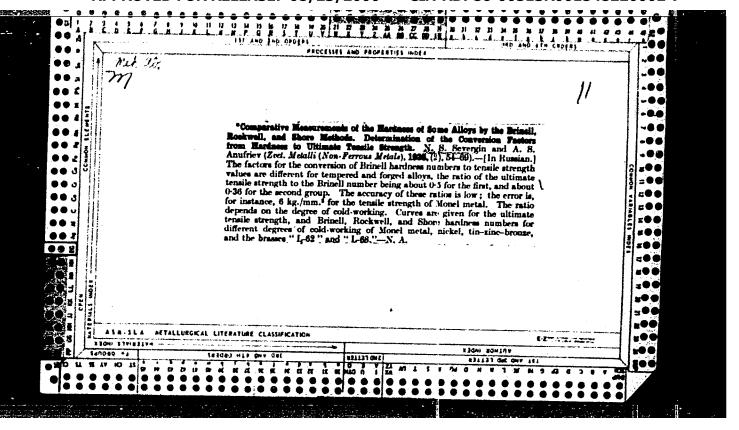


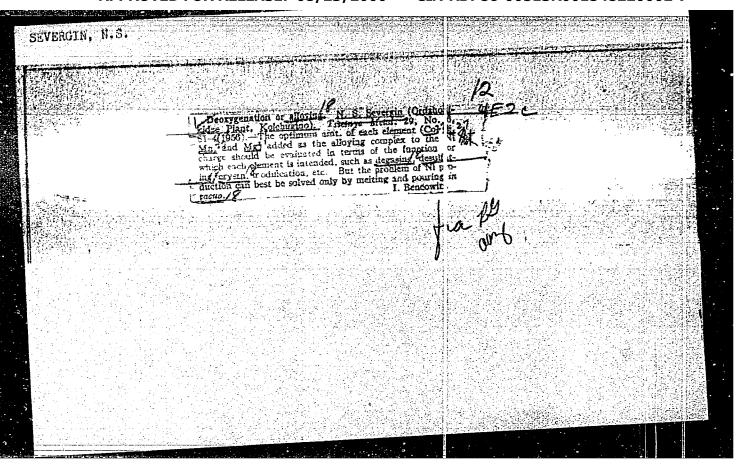




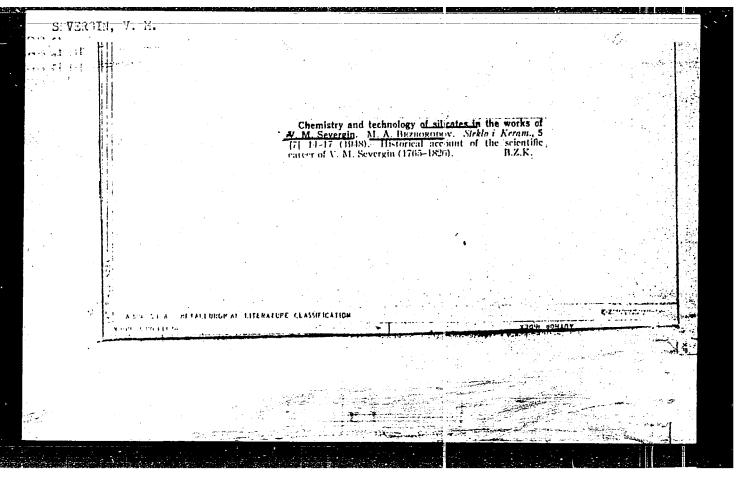








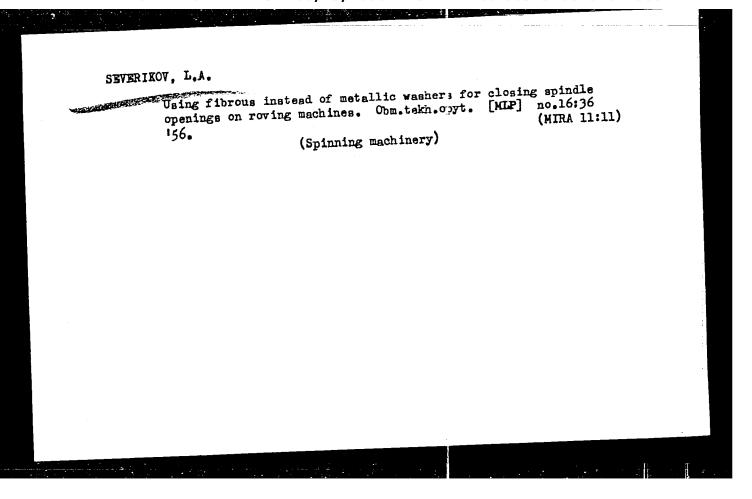
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PETRUNINA, Z.Ye.; SEVERGINA, L.G.

Ordovician stratigraphy of the northwestern Gornyy Altai. Mat.po
geol.Zap.Sib. no.63:81-93 '62.

(MIRA 16:10)



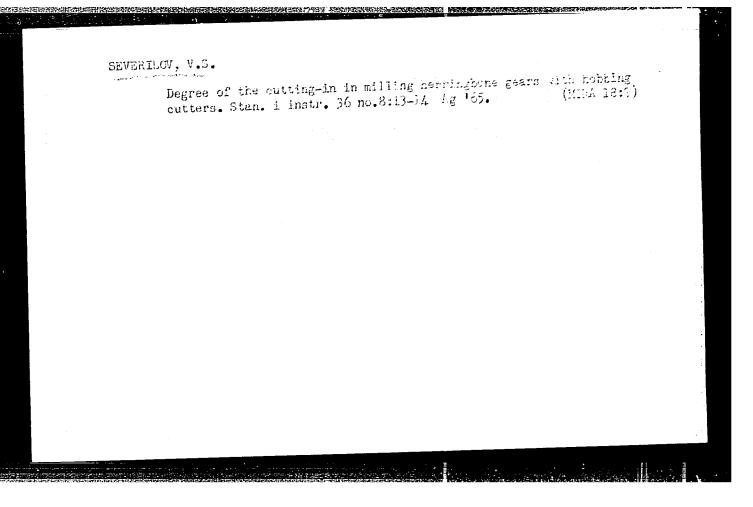
SEVERILOV, V.S., inzh.

New method for designing chamfered cones for hobbing cutters.

Mashinostroenie no.2:21-23 Mr-Ap '62. (MIRA 15:4)

1. Zavod im. 15-letiya Leninskogo kommunisticheskogo soyuza molodezhi Ukrainy.

(Metal-cutting tools)



SEVERILOV, V.S., inzh.; GURENKO, S.I., inzh.

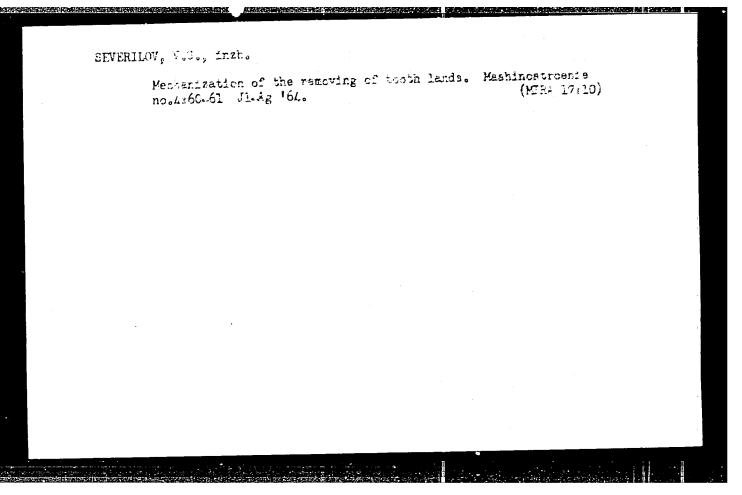
Manufacture and use of high-module welded hobbing and disk cutters. Mashinostroenie no.4:18-19 Jl-Ag. '63. (MIRA 17:2)

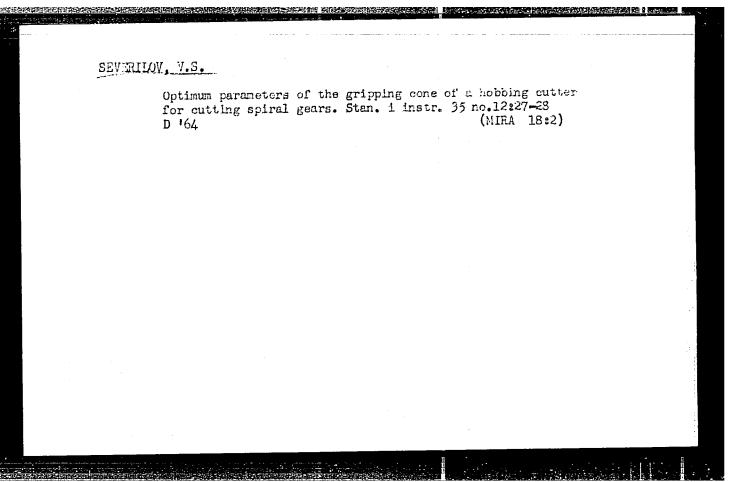
1. Donetskiy mashinostroitel'nyy zavod im. 15-letiya Leninskogo kommunisticheskogo soyuza molodezhi Ukrainy.

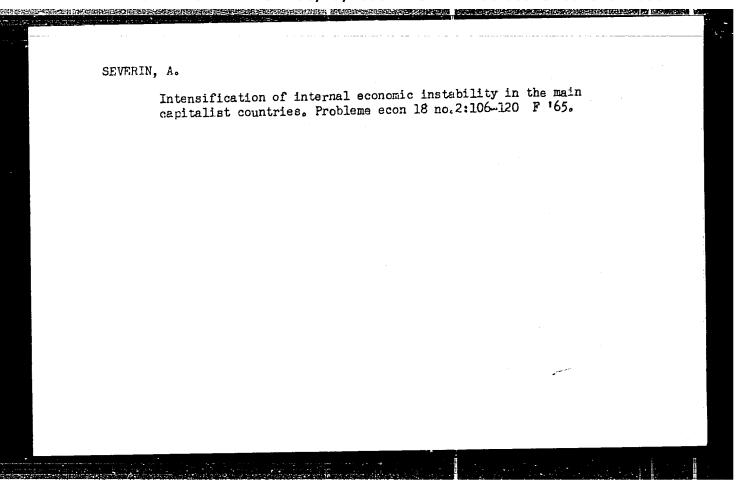
SEVERILOV, V.S., inzh.

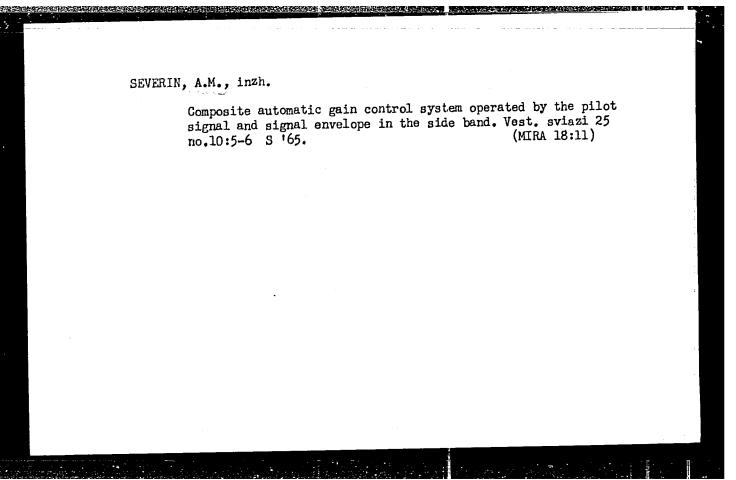
Modernization of gear-milling machines for cutting gear wheels with elliptoid teeth. Mashinostroenie no.5:29-30 S-0 '63. (MIRA 16:12)

1. Donetskiy politekhnicheskiy institut.









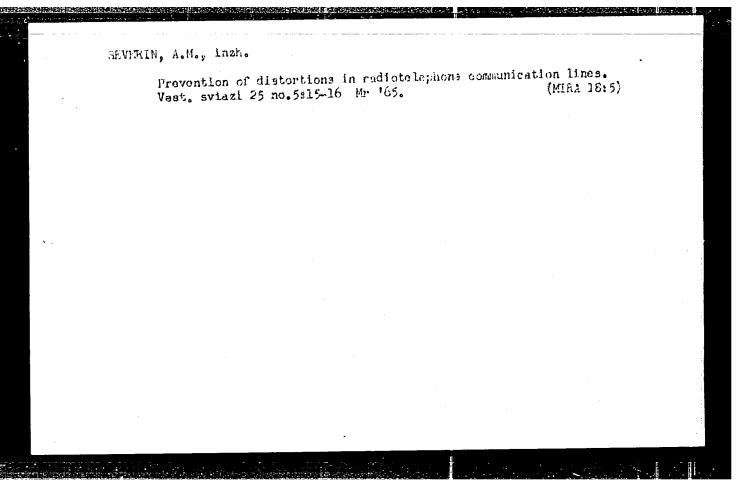
SEVERIN, A.M., inzh.; BIRMAN, A. I., inzh.

Increase in the operational bandwidth of the ShAU-51 wide-band antenna amplifier. Vest. sviazi 23 no.3:13-14 Mr *163. (MIRA 16:3)

1. Radiotsent Moskovskoy direktsii radiosvyazi i radioveshchaniya. (Radio, Shortwave) (Amplifiers (Electronics) (Radio—Antennas)

SEVERIN, A.M., inzh.

Adaptation of VS-3 multiplexing apparatus for operation in radio communication channels. Vest. sviazi 23 no.8:5-7
Ag 163. (MIRA 16:11)



MEL'NIK, M.I.; NIKITINA, T.A., kandidat meditsinskikh nauk; BABASEVA, Ye.P.; FOKINA, A.I.; KONONOV, O.K.; SEVERIN, A.V. Treatment of mycoses of the scalp with Lesovykh solutions No.1 and No.2 without using X rays. Vest. ven. i derm. no.5:21-22 S-0 '54. (MIRA 7:11) 1. Iz Kiyevskogo dermato-venerologicheskcgo instituta (dir. G.Ye. Koryakin) i Kiyevskogo gorodskogo dispansera (glavnyy vrach A.S. Ivanov) (HRAD, diseases, fungus dis., chemother.) (FUNGUS DISEASES, scalp, chemother.)

SEVERIN, B. A.

"Oxydative Metabolism of b. Coli in Presence of Amino Acids," Biokhim., 9, No. 5,

Mbr., Dept. Biochemistry Microbes, All Union Inst. Exptl. Med., Moscos, -1944-.

GEBLER, I.V.; MARTYNOV, A.M.; SEVERIN, B.M.; SMOL'YANINOV, S.M.

Effect of pressure and moisture on the properties of peat as a metallurgical fuel. Torf.prom. 36 no.8:16-20 '59.

(MIRA 13:3)

1. Tomskiy politekhnicheskiy institut. (Peat)

Severin, E.

Severin, E. The first Czechoslovak installation of industrial television. p. 361.
M. Couldn't we do it too? p. 363.

Vol. 4, no. 12, Dec. 1956 SDELOVACI TECHNIKA TECHNOLOGY Czechoslovakia

So. East European Accessions, Vol. 6, May 1957

Severin, E.

Severin, E. First Gzechoslovak equipment for industrial television. p. 19.

Vol. 18, no. 1, Jan. 1957 SLABOPROUDY OBZOF. TECHNOLOGY Czechoslovakia

So. East European Accessions, Vol. 6, May 1957 No. 5

SEVERIN, E.

"Possibilities for the use of industrial television."

p. 271 (Nova Technika, No. 6, 1958, Praha, ^Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 9, September 1958.

HOMUTOV, R. M. [Khomutov, R. M.]; KARPEISKI, M. I. [Karpeyskiy, M. Ya.] SEVERI', E. S. [Severin, Ye. S.]

Correlation between biological action and chemical properties. Analele chimie 17 no.1:156-167 Ja-Mr '62.

L-46290-66 EWT(1) SCTB ACC NR. AP6031122 SOURCE CODE: UR/0217/66/011/002/0364/0366 AUTHOR: Orlovskiy, G. N.; Severin, F. V.; Shik, M. L. ORG: Institute of Biological Physics, AN SSSR, Moscow (Institut biologicheskoy fiziki AN SSSR) TITIE: Effect of speed and load on a dog's coordination of movements while running SOURCE: Biofizika, v. 11, no. 2, 1966, 364-366 TOPIC TAGS: synergy, dog, skeletal mechanics, EEG Previously two of the authors (G. N. Orlovskiy and M. L. Shik), together with Yu. I. Arshavskiy, Ya. M. Kots and I. M. Rodionov, investigated the movements of dogs running on a treadmill and came to the conclusion that over a wide range of running speeds there is a one-to-one correspondence between running speed and the movements of all the limbs which corresponds to the "trot"-type gait. It was noted that the duration of the limb-support phase is much more highly dependent on running speed than are duration and trajectory of limb transfer: Limb transfer was therefore called a "standard" running element. Obviously, a change in treadmill running speed leads to a corresponding change in the load on the animal's motor system: the greater the speed, the greater is the power which the animal must develop. However, such a one-to-one correspondence does not always exist under actual conditions. UDC: 577.37 Card 1/3 2347

ACC NR: AF6031122

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present article describes the movements of a dog when running under conditions where the power to be developed by the animal's motor system could be made to vary by setting the running speed or in other ways. With pickups placed on the principal joints to transmit joint angles, the animal ran along the belt of the treadmill. Changes in the angles of the joints were recorded on an electroencephalograph. The experimenter could independently vary not only the speed of the electric motor-driven belt, but also the angle of inclination of the belt. A leash tied to the dog's collar made it possible to pull the animal back. Tractive force was measured by a dynamometer.

The authors state that the results obtained forced them to revise some of their previous conclusions. The animal's movements are determined not only by running speed, but also by the magnitude of supplementary load. In cases of significant change in load and running speed there is a change in the amplitudes and velocities of joint movements during the limb-transfer phase, especially marked in the region of low low and running-speed values. Thus,

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SEVERIN, I.

"Mathematical statistics with applications in production" by N.Rancu, L.Tovissi. Reviewed by I. Severin. Ind text Rum 14 no.12:599 D'63.

SEVERIN, I.

Aspects of the use of the index of production costs per 1000 lei goods production, expressed in wholesale prices of the enterprise in economical and financial analysis. Ind text Rum 15 no. 5:251-258 My 164.

1. D.G.I.T.C., Ministry of Light Industry.

SEVERIN, I.M., starshiy elektromekhanik.

Let's develop equipment for leudspeaker communications.
Avtem., telem. i sviaz' 2 no.11:17 N '58. (MIRA 11:12)

1.9-ya distantsiya signalizatsii i svyazi Amurskey deregi. (Telecommunication--Equipment and supplies)

SEVERIN, I. S.

USSR/Chemistry - Amino Acids Chemistry - Oxyamino Acids

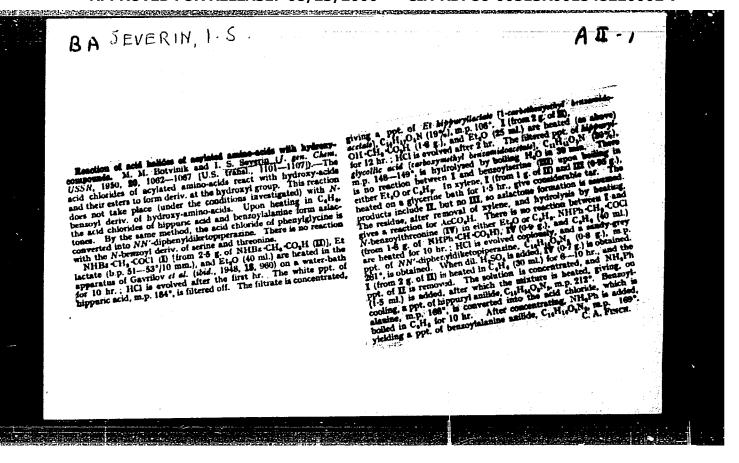
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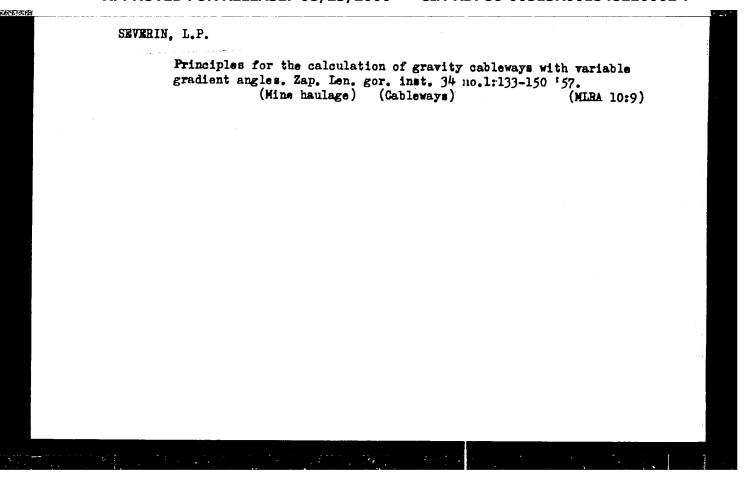
"Quantitative Reaction on Beta-Hydroxy-Alpha-Amino Acid and on Hydroxyalanine,"
M. M. Botvinik, A. Ya. Gaukhman, I. S. Severin, Lab Chem Albumin imeni Acad
N. D. Zelinskiy, Moscow State U imeni M. V. Lomonosov, 2 pp

"Dok Ak Nauk SSSR" Vol LXIII, No 3

Ability of oxyamino acids, heated with acetic and benzoic anhydrides, to change into unsaturated azlactones is basic in working out qualitative reaction on beta-oxyamino acids and individual oxyamino acids. Both reactions from all aminoacids in albumens yield only cystine, which also turns into unsaturated axlactones. Submitted by Acad A. N. Nesmeyanov 7 Jul 48.

PA 55/49T9





SEVERIN L.P.

ASATUR, K.G., dotsent, kand. tekhn. nauk; SEVERIN, L.P., dotsent, kand. tekhn. nauk

Calculating curved air ducts with continuous and regularly spaced outlets along their curve. Nauch. dokl. v.'s. shkoly; gor. dele no.1: 101-106 '59. (MIRA 12:5)

1. Predstavlena kafedroy Gorney mekhaniki Leningradskogo gornege instituta im. G.V. Plekhanova. (Mine ventilation)

SEVERIN, n.P.

Oscillographic studies of the dynamics of non-submerged jets of water. Zap. IGI 41 no.1:62-75 '59. (MIRA 16:5) (Jets-Fluid dynamics) (Hydraulic mining)

GERONT'YEV, V.I.; SEVERIN, L.P.

Breaking coals and rocks with jets of water. Zap. LGI 41 no.1;
17-33 '59.

(MIRA 16:5)
(Kaznetsk Basin-Coal-Testing) (Rocks-Testing)
(Jeus-Fluid dynamics)

KOLCHANOV, V.D.; SEVERIN, L.P.

Breaking materials with a rotating jet of water. Zap. IGI 41 no.1:

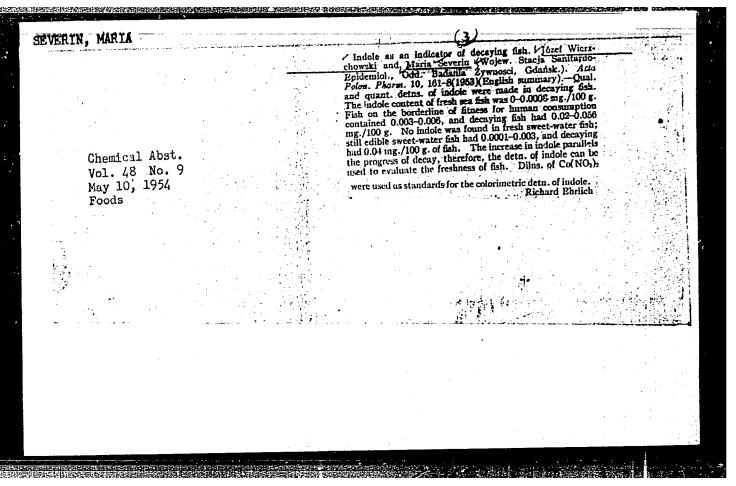
(Jets--Fluid dynamics) (Hydraulic mining)

ASATUR, K.G., dotsent, kand.tekhn.nauk; KCMAROV, V.B., prof., doktor tekhn. nauk; KUROCHKIN, N.N., dotsent, kand.tekhn.nauk; SEVERIN, L.P., dotsent, kand.tekhn.nauk

Temperature of air heating in mine heating units. Ugol 38 no.3:56-57 Mr 163. (MIRA 18:3)

1. Leningradskiy gornyy institut im. G.V. Flekhanova.

Rapid methody-for the determinating-of arguments in decaying film. | Acel Wirerchowski, Voice Bodgerik, and decaying film. | Acel Wirerchowski, Voice Bodgerik, and Maria Swerili Woley. Sincip Smith: Epidemiol., Odd. | Badgerik Zyrmowci. Oddath. | Recentive Politherage Zahora Carabas Ca



H-28 POIAND / Chemical Tochnology, Chemical Products and Their Application. Food Industry. : Rof Zhur - Khimiya, No 5, 1959, No. 17450 Abs Jour : Wierzchowski, J.; Severin, M. Author : Content of Tin and Iron in Certain Fish Preserves Inst Titlo : Roczn. Panstw. zakl. hig., 1957, 8, No 5, 481-493 Orig Pub : Presented are data on the determination of Sn, Fe, acidity of oil, and acidity of tomato sauce in 6 Abstract varieties of fish preserves used in the studies of rates at which the above metals migrated into the contents of these preserves. Interdependence between acidity of oil and tin content has been established. Card 1/1 4-120

WIERZCHOWSKI, Jozef; CZARNOWSKA, Wanda; GANOWIAK, Zenon; SEVERIN, Maria

Hygienic evaluation of industrial ice cream production. Roczn panstw zakl hig 14 no.6:529-536 '63.

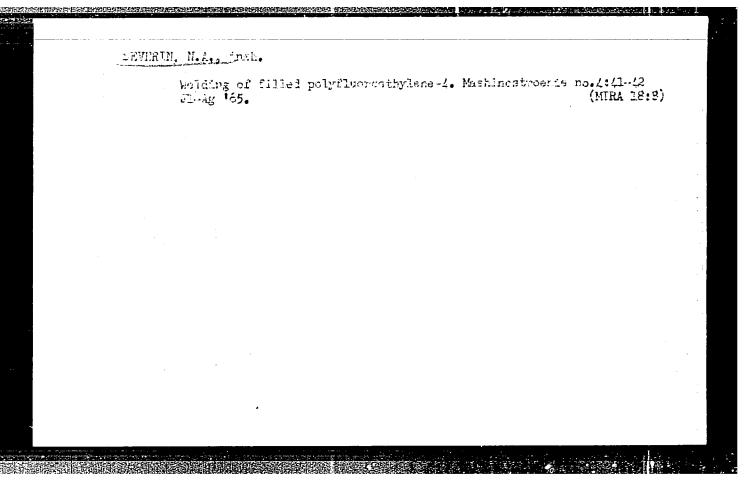
1. Department of Food Science, School of Medicine, Gdansk, and School of Statistics and Economics, Gdansk.

SEVERIN, N.

Rivers - Ural Mountain Region

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SEVERIN, Nikolay Aleksandrovich; GALKIN, P.D., redaktor; KOSLOVSKAYA, M.D., tekhnicheskiy redaktor

[Russian travelers and explorers] Otechestvennye puteshestvenniki i issledovateli. Moskva, Gos.uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1956. 300 p. (MLRA 9:8) (Explorers, Russian)

SEVERIN, Nikolay Aleksandrovich; MINAYEV, V.A., kandida: geograficheskikh nauk, nauchnyy redaktor; YEDYAYEYA, N.A., redaktor isdatel*stva; KRASNAYA, A.K., tekhnicheskiy redaktor.

[On the Northern Dvina; guidebook for the Sukhona, Vychegda, and Northern Dvina Rivers] Po Severnoi Dvine; putivoditel' po Sukhone. Vychegde, Severnoi Dvine. Moskva, Izd-vo "Rechnoi transport."

1957. 309 p. (MLRA 10:6)

(Russia, Northern-Description and travel)

Severin, Nikolay Aleksandrovich

Po Severnoy Kvine; putevoditel' po Sukhone, Vychegde, Severnoy Dvine. Moskva, Rechnoy Transport, 1957.
309 p. illus. fold. col. map. 18 cm.
Bibliography: p. 307-(308)

SEVERIN, P.

The villages of Sumy District are in good order. Sil'. bud. ll no.94 S '61. (MIRA 14:11)

1. Redaktor stengazety "Za vysokiy urozhay" kolkhoza imeni Chapayeva sela Severinovka, Sumskogo rayona, Sumskoy oblasti. (Sumy District - City planning)

62539-65 EPF(c)/EMP(k)/EMP(z)/EMT(m)/EMP(b)/T/EMA(d)/EMP(e)/EMP(w)/EMP(t) Pf-L/Pc-L/Pr-L IJP(c) JAJ/RM/DJ/MJW/JD ACCESSION NR: AP5012659 UR/0369/65/001/002/0237/0242 AUTHOR: Afanas'yev, V. F.; Severin, P. A. TITLE: Antifriction properties of metallopolymeric compositional materials in gases and in a vacuum SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 2, 1965, 237-242 TOPIC TAGS: friction, metal wear, bronze, stainless steel ABSTRACT: A previous paper examines friction processes and wear of certain metals in a cryogenic-vacuum assembly. The assembly works on the principle of face friction against an abrasion disc, rotating in a horizontal plane. The coefficient of friction was determined by elastic deformation during twisting of the rods to which the sample holder was fastened. Keasurement of wear was based on measurements of linear dimensions and weight loss of samples. Metallographic and x-ray structural analysis show the qualitative changes during these tests. This paper shows results of tests by this method. For a porous base, tin bronze 10 was used with porosity 30-40% obtained by free agglomeration of spherical porder in a reducing medium at 800-850°C. To increase the resistance of the porous layer, the bronze was welded to Card 1/2

a steel base. 1Kh18N9T stain body of friction. The tests on the mechanisms of wear of efficients of friction of the argon, nitrogen and helium fic pressure and rate of sli in gases and in vacuum is the has: 4 figures, 2 tables.	showed that gases and a va- metallopolymer composition a tested materials in a vac a somewhat higher than in a pring have on the coefficie	al materials. Wear and co- uum (up to 10 ⁻³ N/m ²) and in ir. The effect which speci- nt of friction during tests
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L 43831-66 EWT(m)/EWP(j)/T IJP(c) DJ/RM ACC NR: AP6030599 (A, N) SOURCE CODE: UR/0413/66/000/016/0091/0092	
INVENTOR: Severin, P. A.	
ORG: none	
TITLE: Preparative method for antifriction materials based on floroplast-4. Class 39, No. 185051 [announced by the Institute of the Chemistry of High Molecular Weight Compounds AN UkrSSR (Institut khimii vysokomolekulyarnykh soyedineniy AN UkrSSR)]	
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 91-92	:
TOPIC TAGS: antifriction material, teflon, self lubricating material	
ABSTRACT: An Author Certificate has been issued for a preparative method for polymer-metal antifriction materials based on floroplast-4 [polytetrafluoroethylene]. The	+
method involves the impregnation of a porous metal base in the pressure and holding time required for the impregnation, the plastic is used in the pressure and holding time required for the impregnation, the plastic is used in the form of shavings cut perpendicular to the molding plane of the floroblock. Finely divided fillers, such as colloidal graphite may be added to the [SM]	
plast-4. SUB CODE: 11/ SUBM DATE: 14Mar64/ ATD PRESS: 5072	
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ACC NR: AP7004189

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SOURCE CODE: UR/0369/66/002/006/0698/0701

AUTHOR: Gorokhovskiy, G. A.; Bezruk, L. I.; Severin, P. A.; Dudnik, M. I.

ORG: Kiev Institute of Engineers of Civil Aviation (Kiyevskiy institut inzhenerov grazhdanskoy aviatsii)

TITLE: Effect of technological orientation of structure on the wear of polytetrafluoroethylene

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 6, 1966, 698-701

TOPIC TAGS: polymer structure, polytetrafluoroethylene, wear resistance, chain polymer

ABSTRACT: The wear resistance of polytetrafluoroethylene (PTFE) is investigated as a function of the pattern of alignment of supramolecular formations, which pattern is determined by the technique of processing of the polymer into manufactured articles. The product of the polymerization of PTFE represents a white powder with a fibrous structure which is processed into manufactured articles by pressing and sintering at 360-370°C. The specimens tested were cylinders 30 mm in diameter and 40 mm in height, pressed by means of uniaxial compaction. Such a force field leads to an orientation of supramolecular structures which will persist during subsequent sintering owing to the extremely high viscosity of the PTFE melt. Two series of specimens were tested

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ACC NR: AT7001734

SOURCE CODE: UR/0000/66/000/000/0177/0187

AUTHOR: Severin, P. A.; Gorokhovskiy, G. A.

ORG: none

TITLE: New technological methods for manufacturing metal-polymer antifriction materials on the basis of polytetrafluoroethylene

SOURCE: Vacsoyuznoye soveshchaniye po pererabotke i primeneniyu plasticheskikh mass v narodnom khozyaystve. 1st, Sverdlovsk, 1964. Pererabotka plasticheskikh mass (Processing of plastics); trudy soveshchaniya. Moscow, Izd-vo Khimiya, 1966, 177-187

TOPIC TAGS: friction, metal friction, antifriction material, antifriction bearing, polytetrafluoroethylene, polymer impregnated porous metal atuative, antifuction metal, graphite

ABSTRACT: Methods are described for the preparation of polytetra-fluoroethylene-filled antifriction materials from porous metals. Filling of the porous metal was achieved by intrusion of specially prepared band-shaped polytetrafluoroethylene (PTFE) under optimum conditions of 400 kg/cm² pressure, 390C within 30 seconds into porous tin-bronze. Cylinders from porous tin-bronze were used for the experimental investigation of the antifriction properties of the PTFE-impregnated material.

Card 1/3

ACC NR: AT7001734

As the intrusion of the usual sheet PTFE into porous metals presented difficulties, three special band-shaped modifications of PTFE were developed at the Institute of Macromolecular Compounds of the AS UkrSSR: 1) "Structured" band material was obtained by turning or shaving cylinders prepared by pressing the fibrous powder of the common polymer; a layer-like orientation of fibers takes place during the pressing. 2) "Filled" band material, which is filled with colloidal graphite was the second modification. As mixing and subsequent sintering of PTFE and graphite cannot be applied with graphite amounts over 10%, baking of the mixtures in sealed molds, which produces an increase of internal pressure because of the expansion of PTFE grains, was attempted with positive results: the expanding polymer grains were welded and graphite was uniformly occluded. Bands were obtained as above. 3) "Secondary" band material was obtained by repeated disintegration and sintering of The sintering was performed under self-produced pressure of the expanding polymer. The decreased mechanical strength of the bandshaped material indicates that intermolecular forces are weakened and therefore the filling of the capillary pores of the metal items can be achieved at lower pressures and in a shorter time. The rheological properties of all three materials were tested on specially constructed devices. It was found that the maximum flow speed was displayed by the filled modification with 5% colloidal graphite. The frictional properties of the PTFE-filled porous bronze specimens were studied at the Card 2/3

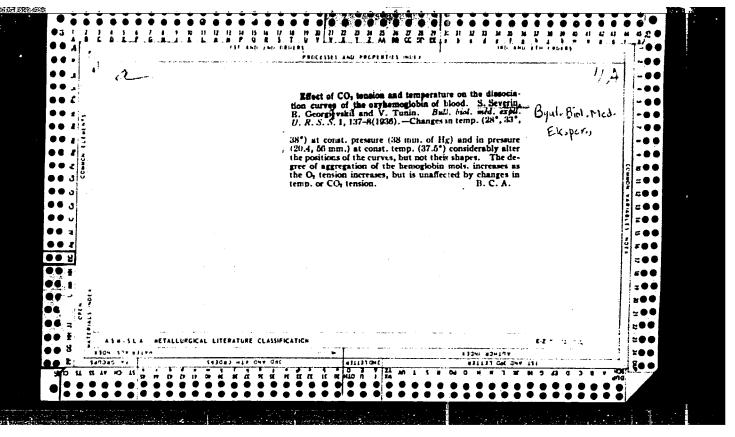
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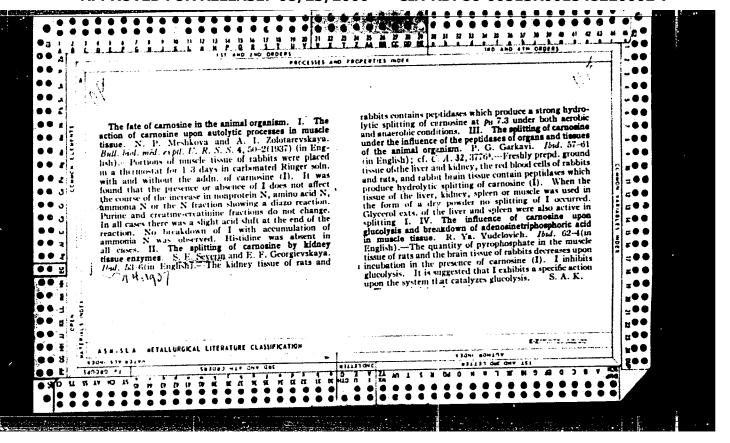
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SEGAL', G.I., kandidat neditsinskikh nauk, zaveduvushchiy (Vileyka); SEVERIN, S.S., zaveduvushchiy (Vileyka).

Tissue therapy by thyroid implants. Klin.med. 31 no.7:89-90 J1 '53. (MLRA 6:9)

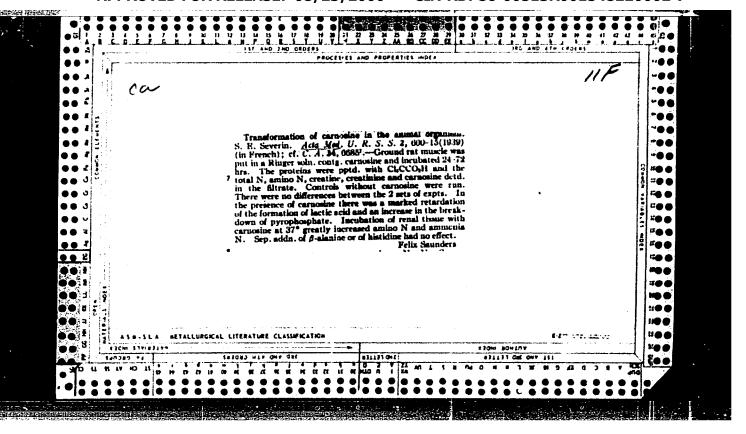
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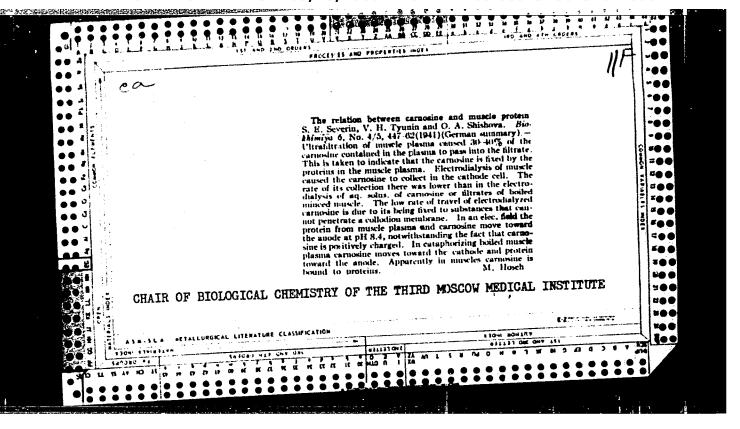


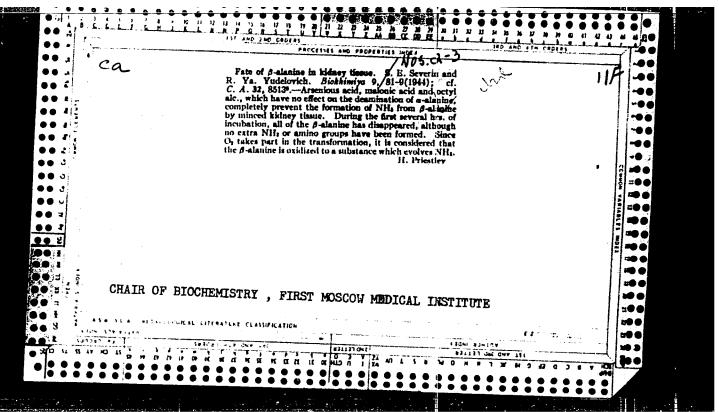


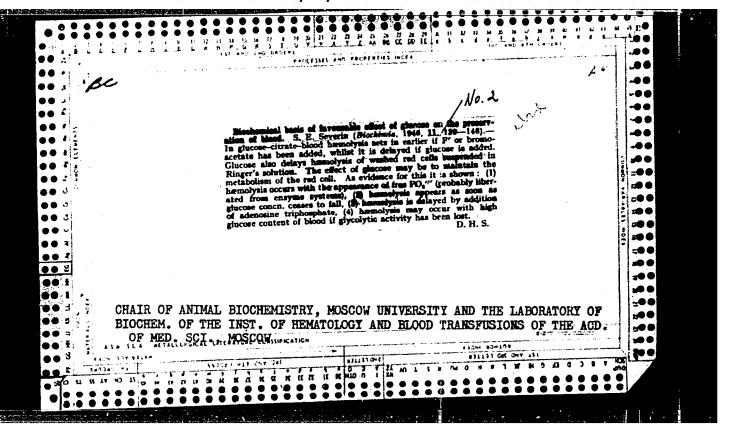
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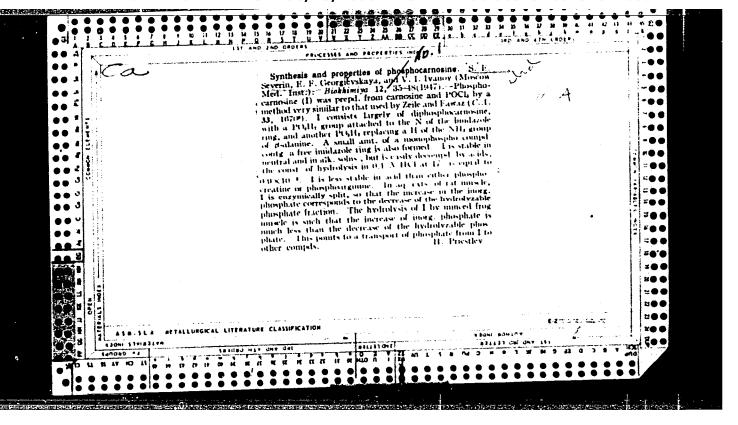
The conversion of carnosine in the kidneys S.E. SEVERIN AND E. GEORGIEVSKAYA. (BIOCHEMICAL LAB. 3rd. MOSCOW MEDICAL INSTITUTE) vol.3, no.2, p. 148, 1938.

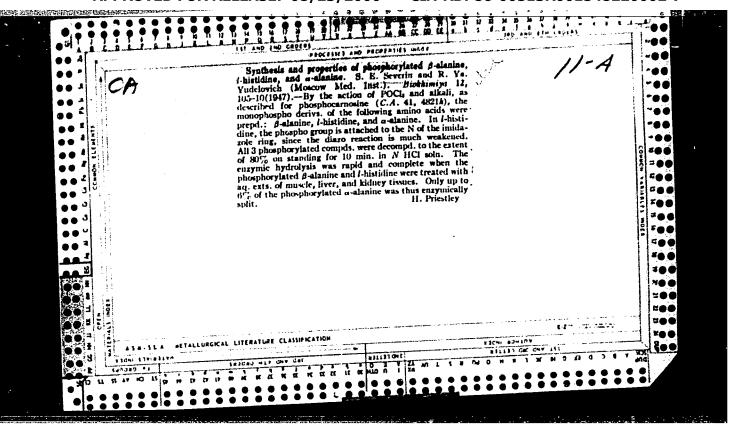


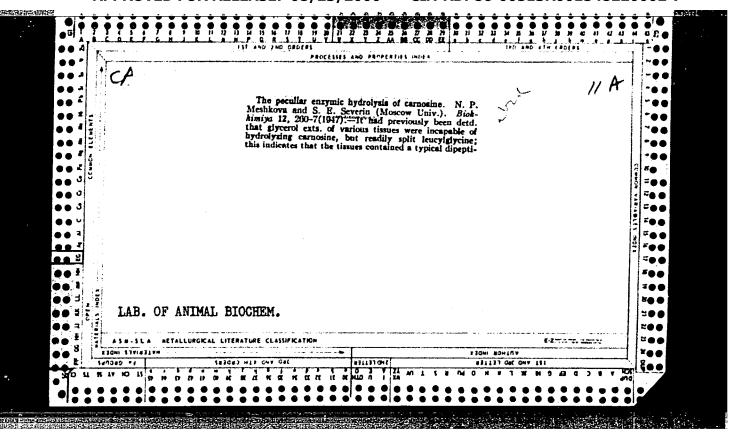




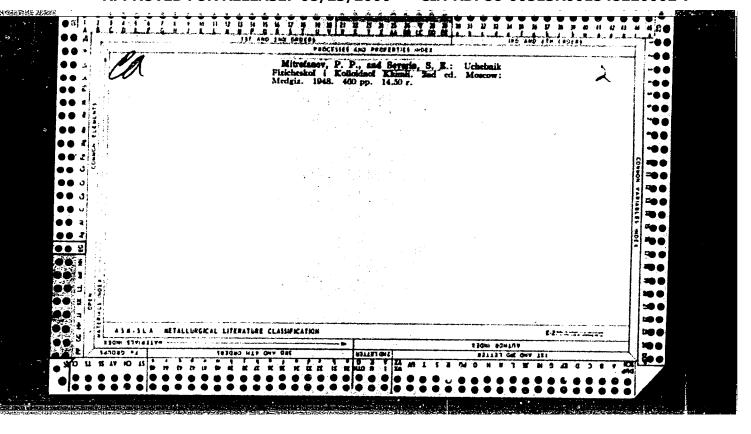








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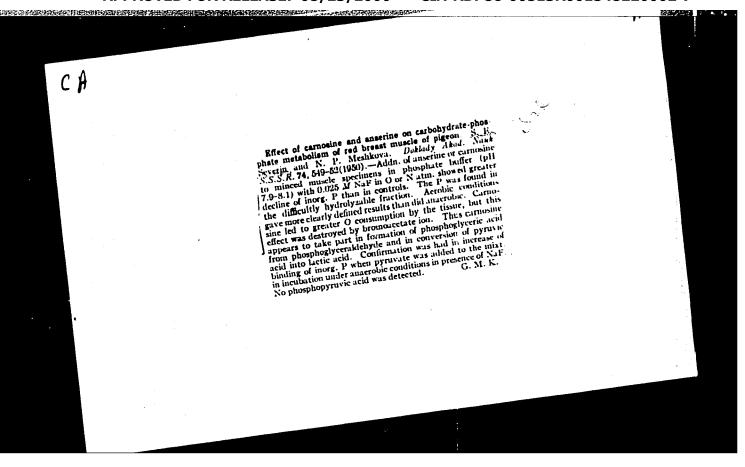


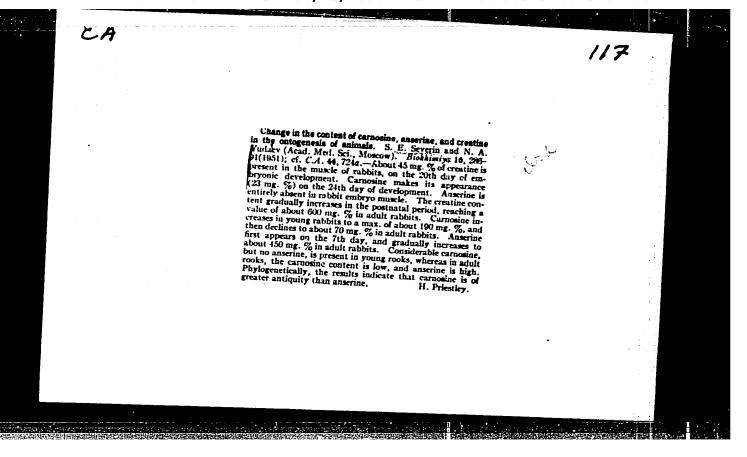
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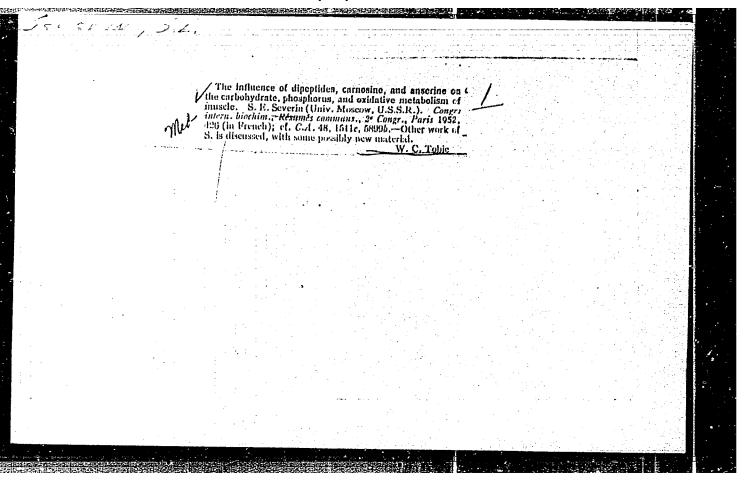
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SEVERIN, S. Ye. PA 3/49T77 USSR/Medicine - Carnosine Mar/Apr 48 Medicine - Carbohydrates "Effect of Carnosir on the Carbohydrate-Phosphorus Exchange of Muscles," S. Ye. Severin, V. I. Ivanov, N. P. Karuzina, R. Ya. Yudelovich, Chair of Med Chem, Moscow Med Inst, MZ RSFSR, 11 pp "Biokhimiya" Vol XIII, No 2 Reports series of experiments. Carnosine, when added to suspension of frog's muscle in phosphate buffer solution, accelerates esterification of inorganic phosphate and whole process of glycogenolysis. Describes action of histidine, anserine and & analin. Submitted 1 Aug 47. 3/49777

"Carnosine and Anserine Content of Spinal Muscles at Various Ontogenetic Stages," S. Te. Severin, Active Mem, Acad Sci USSR, M. A. Yudayev, 3t pp "Dok Ak Nawk SSSR" Vol LXVIII, No 2-47-353-L Tables give carnosine and anserine content in apparently carnosine first increases, while anserine increases greatly. Seems probable that carnosine characterizes a 3/50764 USSR/Medicine - Muscles, Spinal 11 Sep 49 [Contd] Lover functional level than the more complex anserine and that, phylogenetically, progress in contracting tiasue passes from the lower to the higher functional level. 3/50764





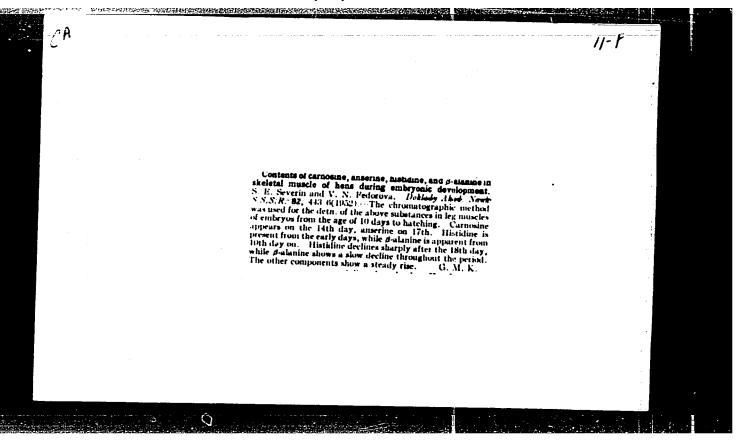


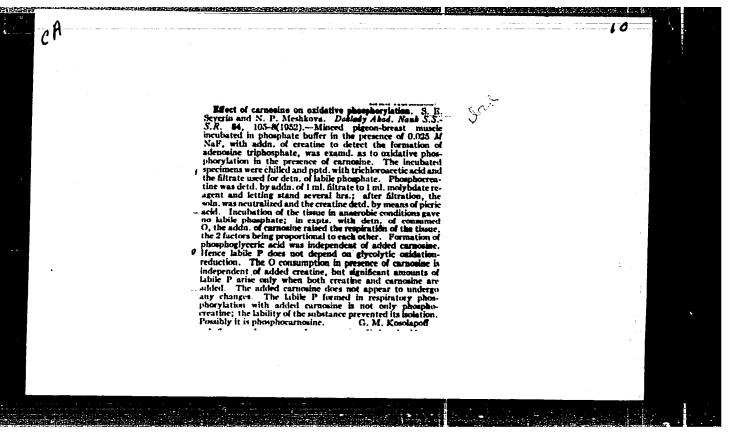
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Carbohydrate-phosphorus metabolism of the smooth muscles. Biokhimiia. Moskva 17 no.5:584-592 Sept-Oct 1952. (CLML 25:1)

1. Iaboratory of Animal Biochemistry of the Soil Biology Institute. Moscow State University.





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Effect of carnosine on phosphorylation in the cardiac muscle. Doklady Akad. nauk 86 no. 5:1001-1004 11 Oct 1952. (CLML 23:3)

1. Active Member of the Academy of Medical Sciences USSR for Severin.

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